04772 U.S. PTO
120407

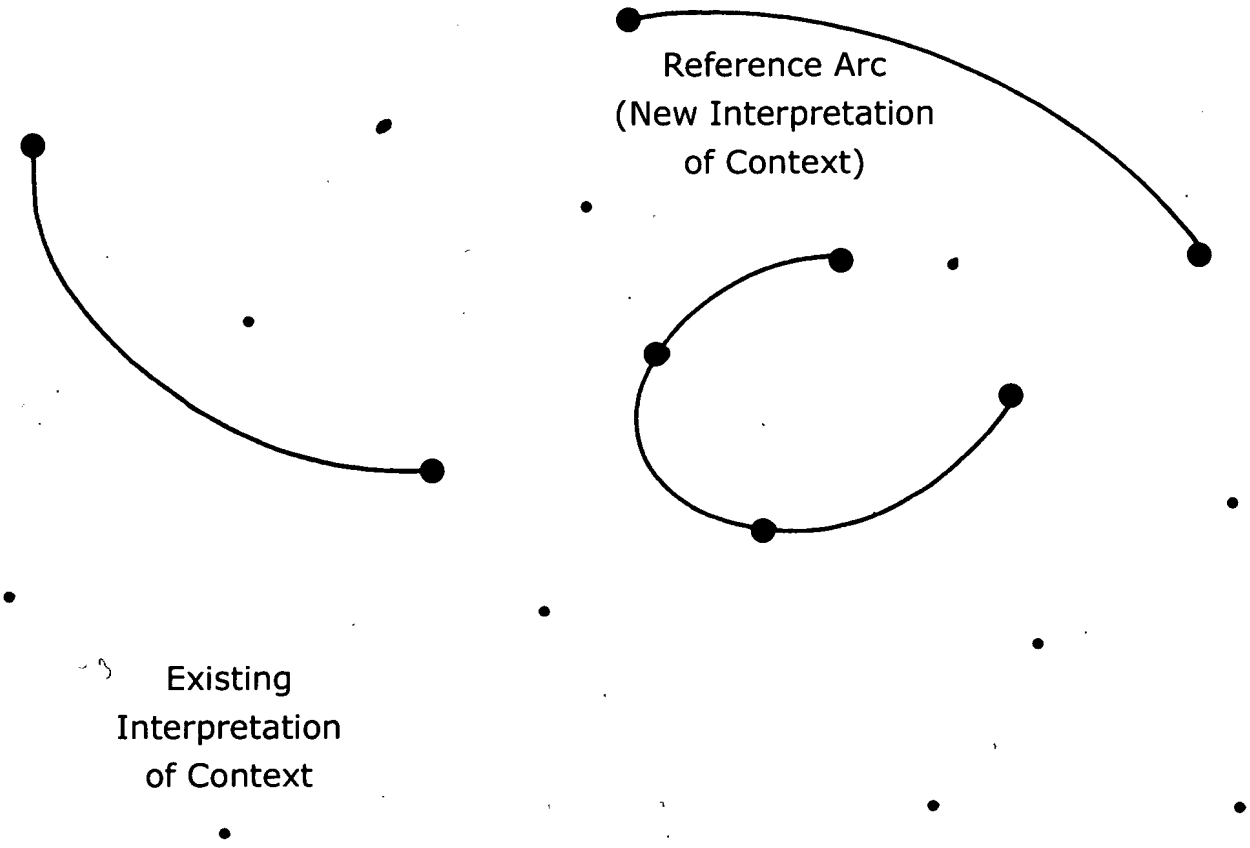


FIGURE 1

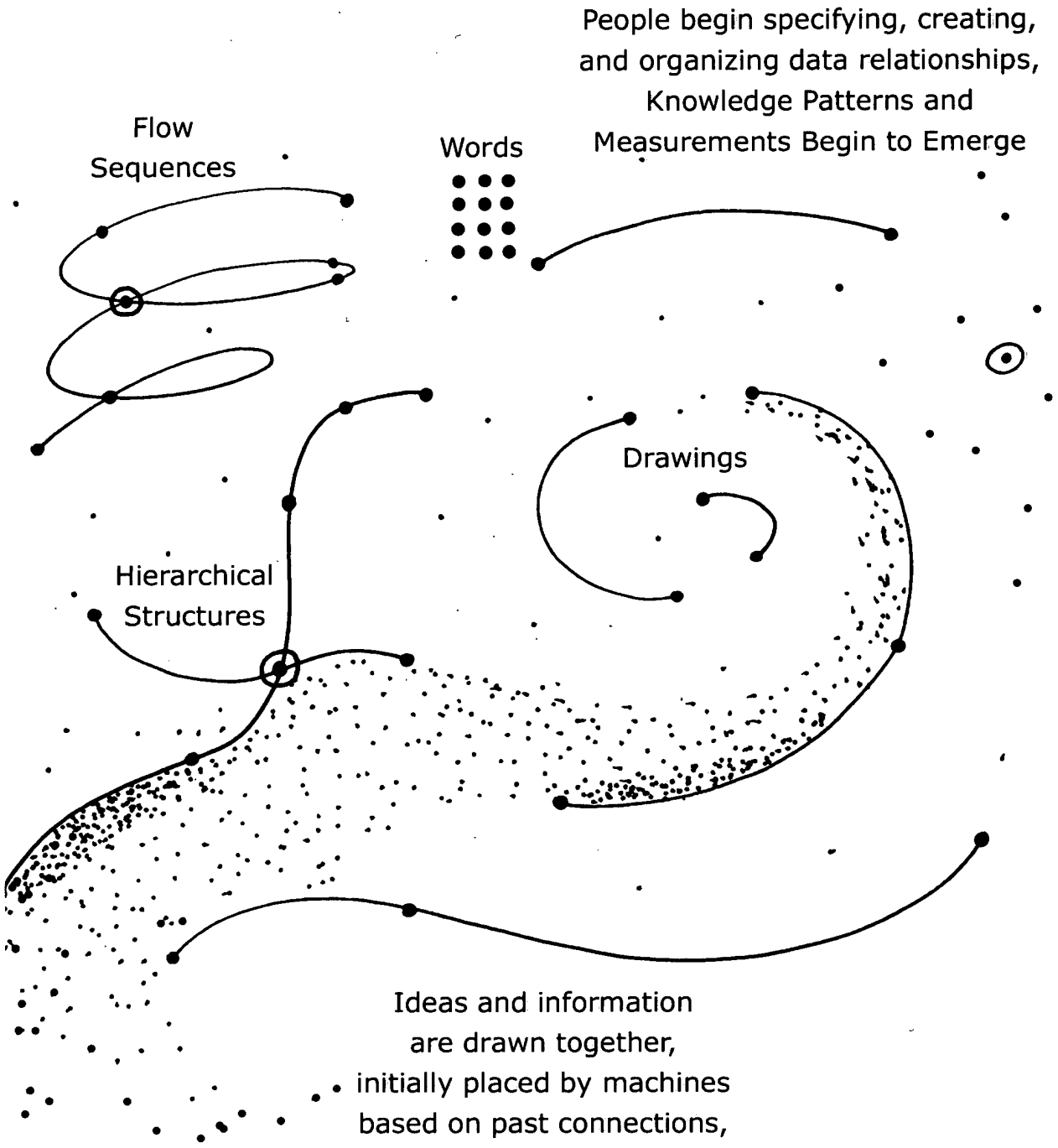
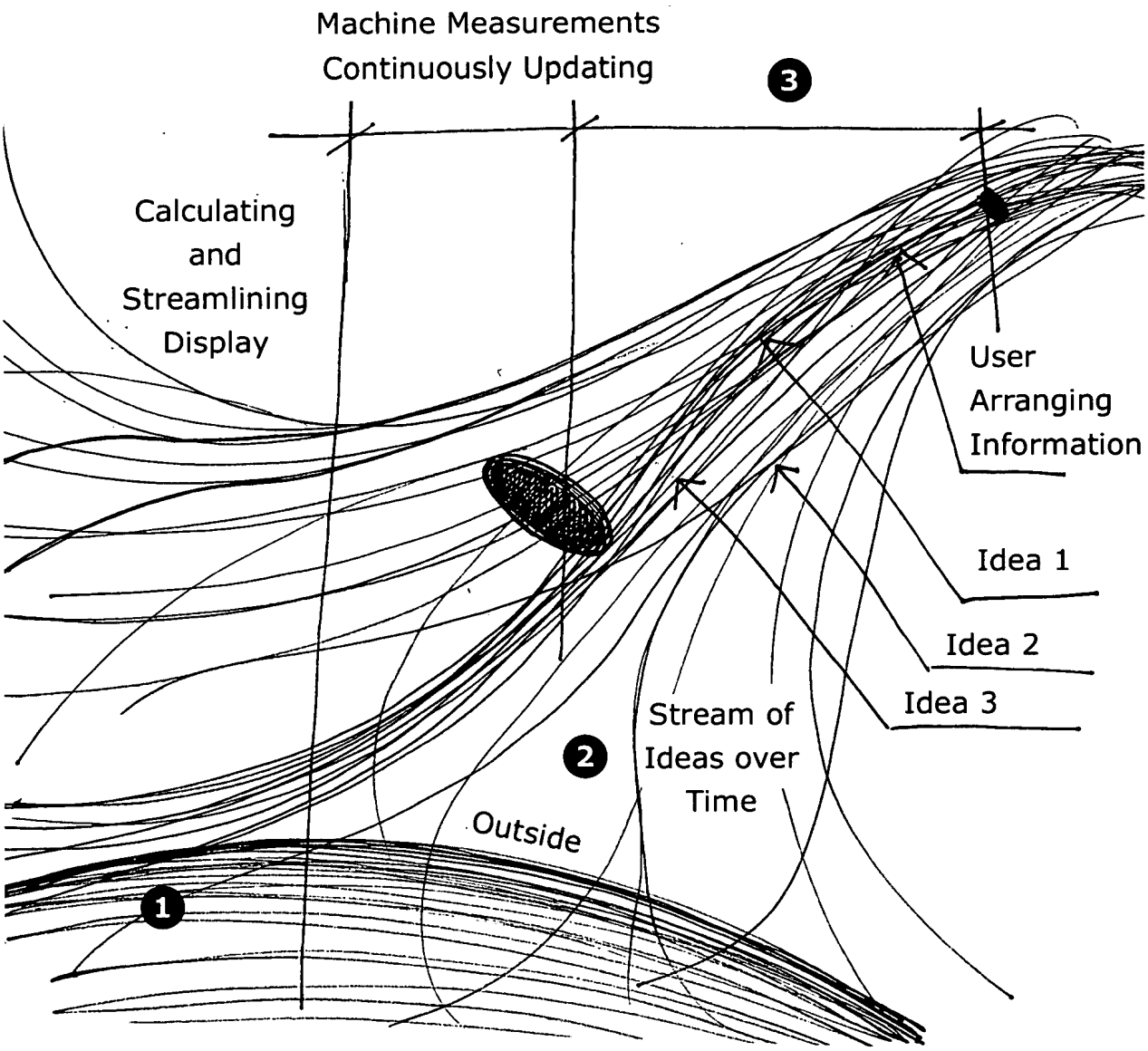

People begin specifying, creating, and organizing data relationships, Knowledge Patterns and Measurements Begin to Emerge
Flow Sequences
Words
Drawings
Hierarchical Structures
Ideas and information are drawn together, initially placed by machines based on past connections, for users to correct proportions and sequences

FIGURE 2



Inside Bounded Areas:
User Making Decisions and
Preparing to Draw Conclusions

FIGURE 3

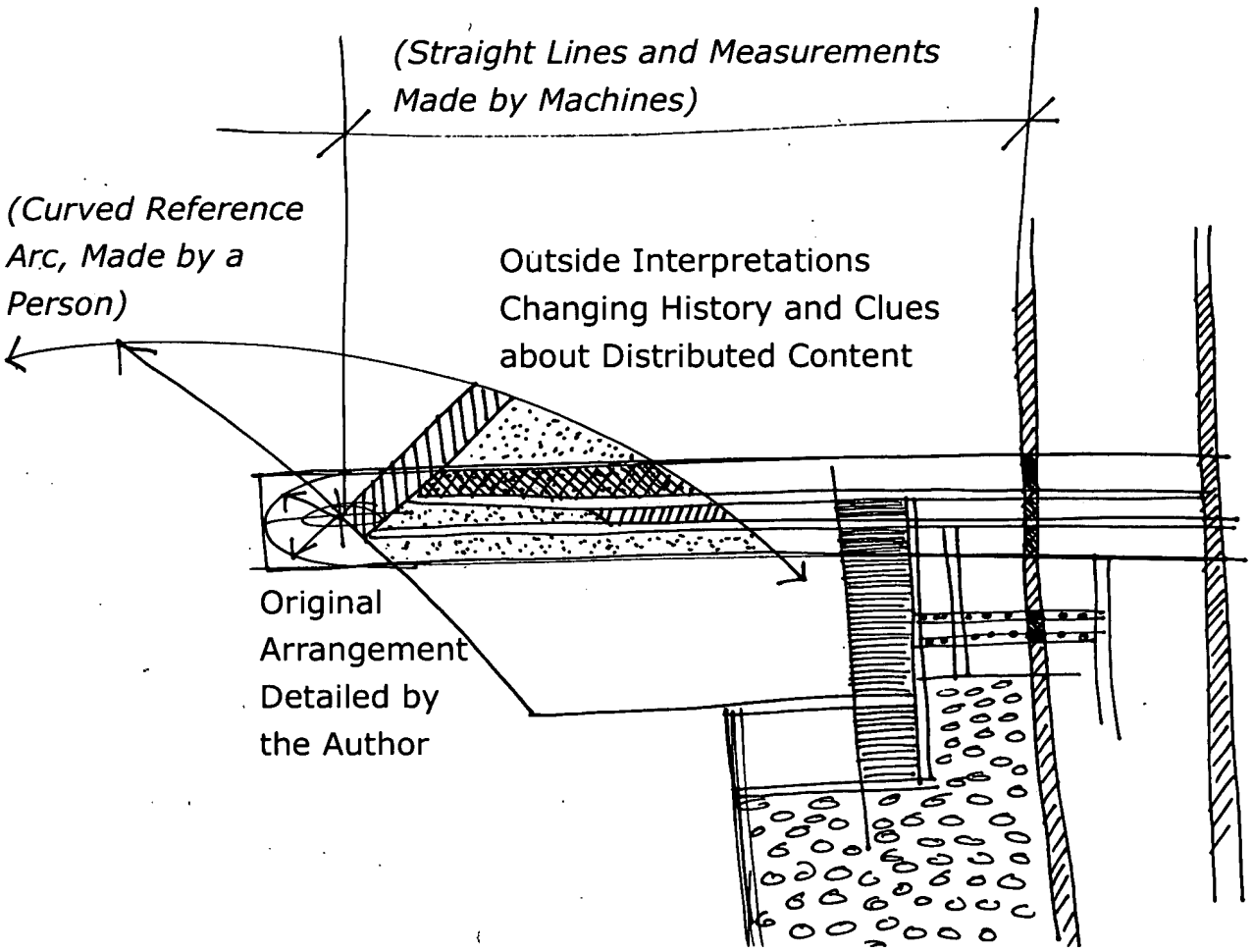
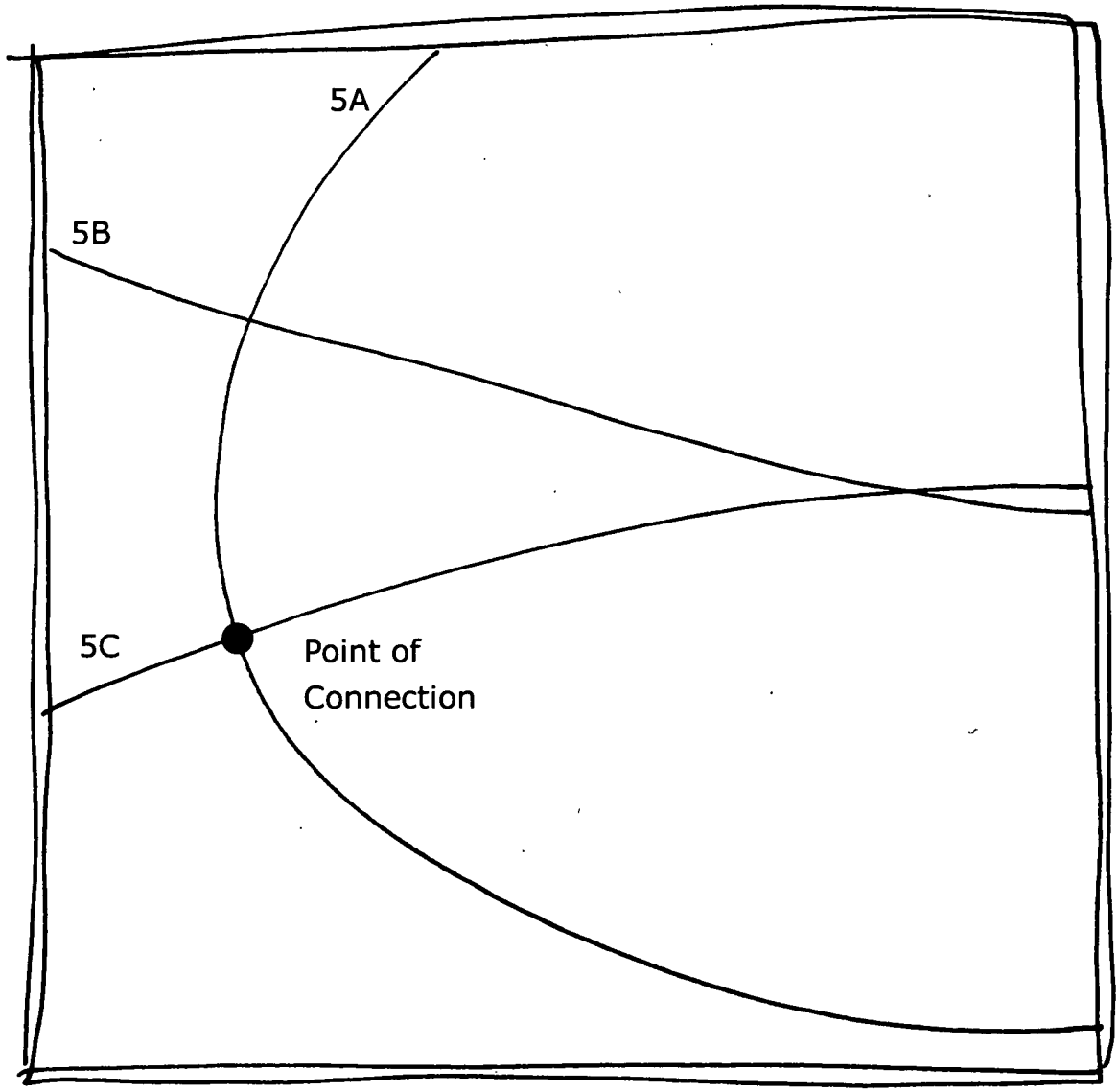
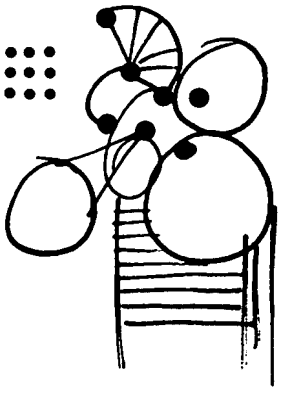

(Straight Lines and Measurements Made by Machines)
(Curved Reference Arc, Made by a Person)
Outside Interpretations Changing History and Clues about Distributed Content
Original Arrangement Detailed by the Author
Information Components Placed in a Hierarchy with Emphasis, Proportion, and Adjacencies

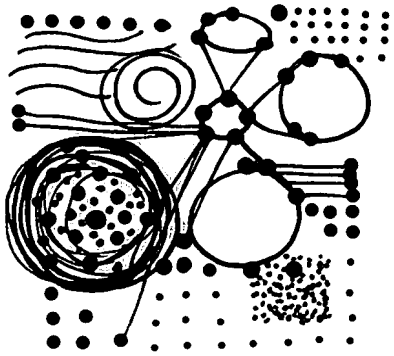
FIGURE 4



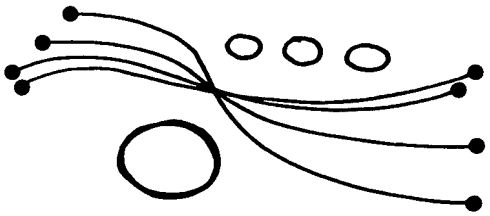
5A Curator



5B Scientist



5C Detective



Decision Process and
History for Each User

FIGURE 5

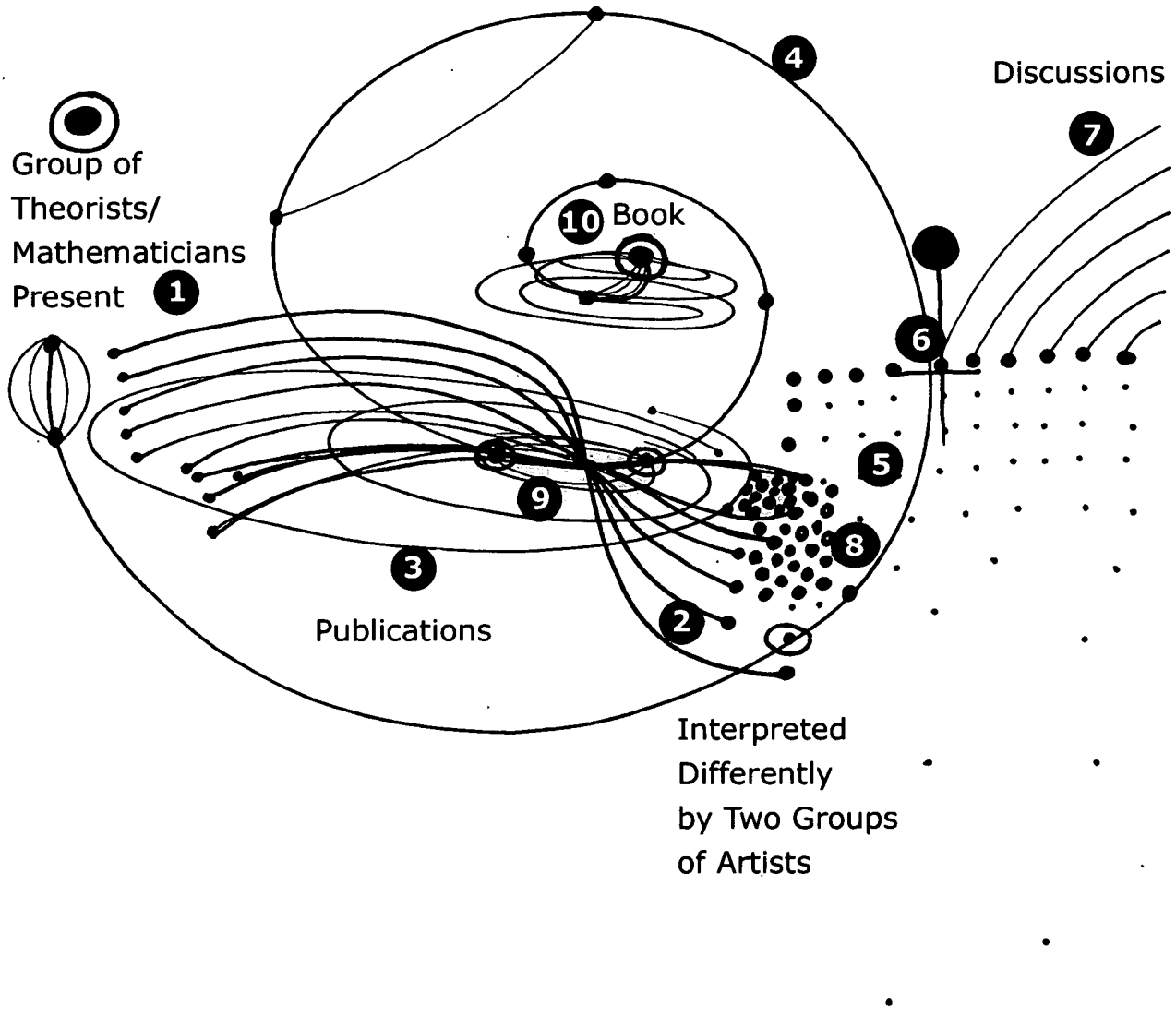
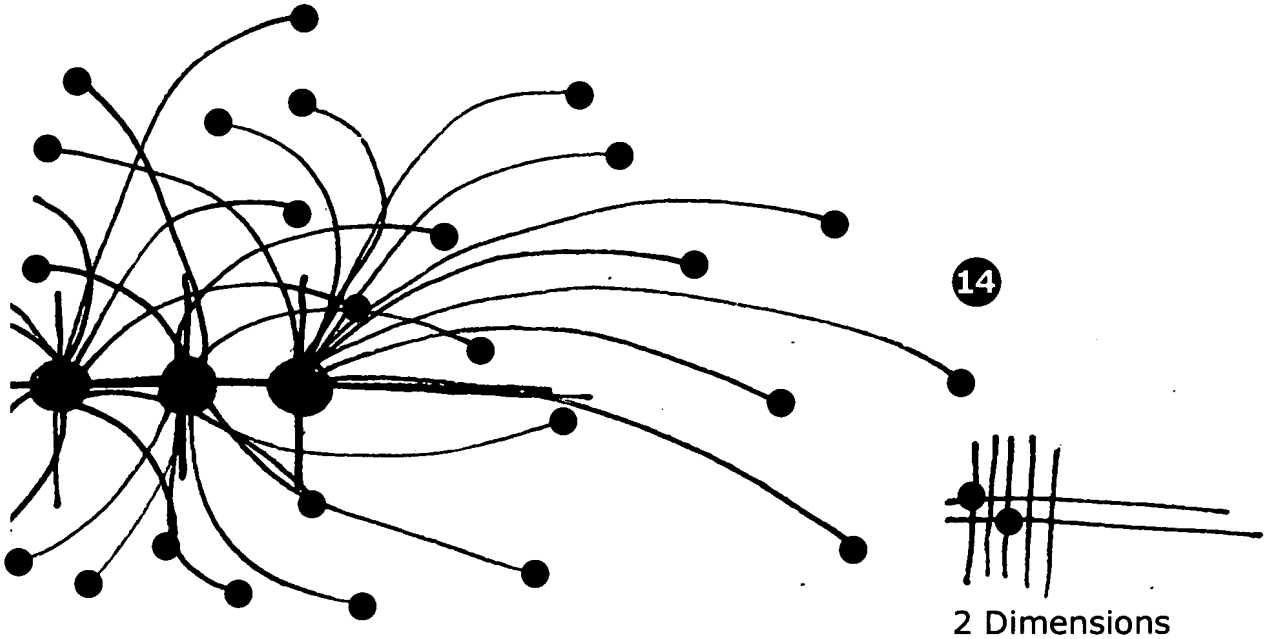
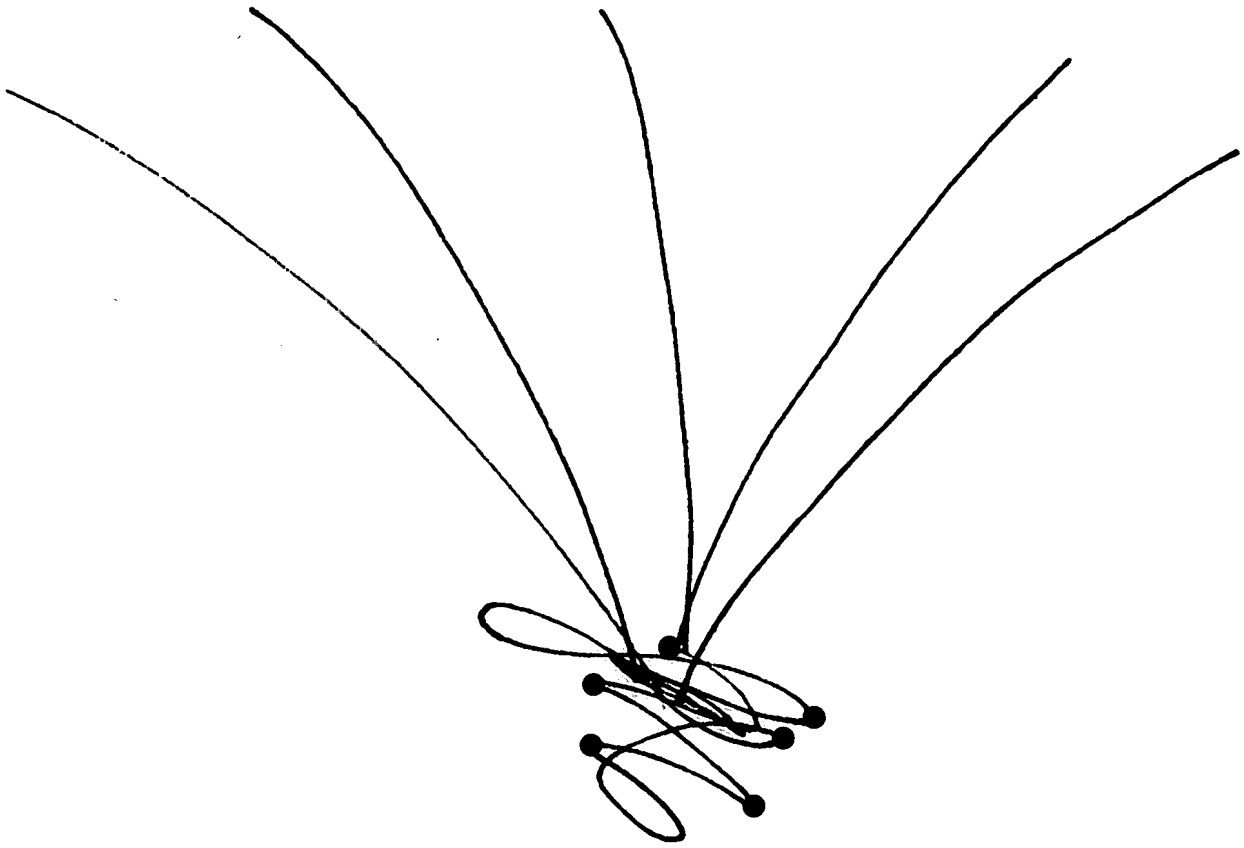

Group of
Theorists/
Mathematicians
Present
1
4
Discussions
7
10 Book
6
5
9
8
3
Publications
2
Interpreted
Differently
by Two Groups
of Artists

FIGURE 6A



3 Roles - Theorist/Mathematician,
Artist, and Integrator -
Narrowed to 3 Dimensions

FIGURE 6B DETAIL



Capturing All of the Artwork,
Theorists Examples, and Digital
Systems into 1 Context
Driven Topology

FIGURE 6C

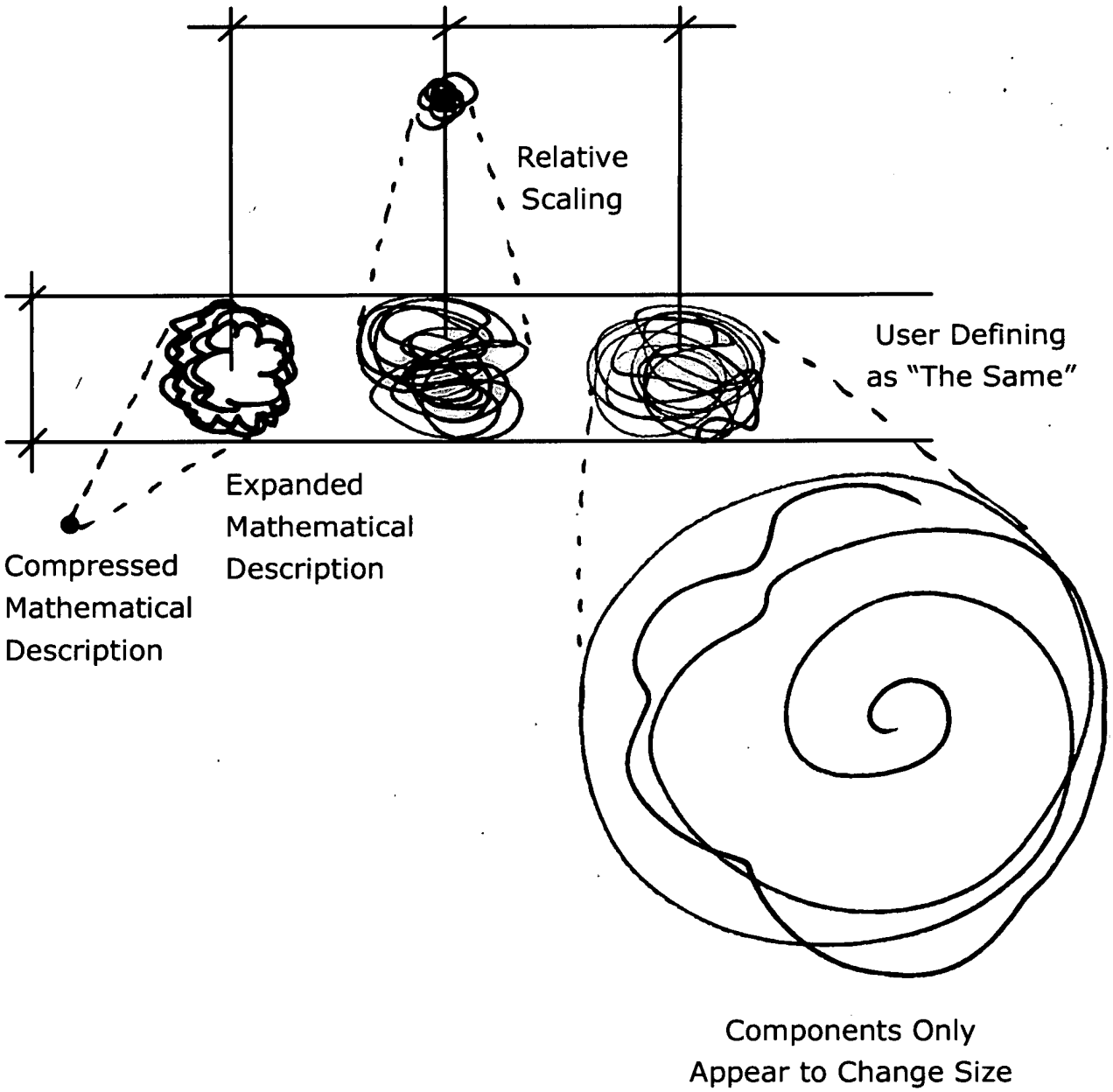

Relative
Scaling
User Defining
as "The Same"
Expanded
Mathematical
Description
Compressed
Mathematical
Description
Components Only
Appear to Change Size

FIGURE 7A

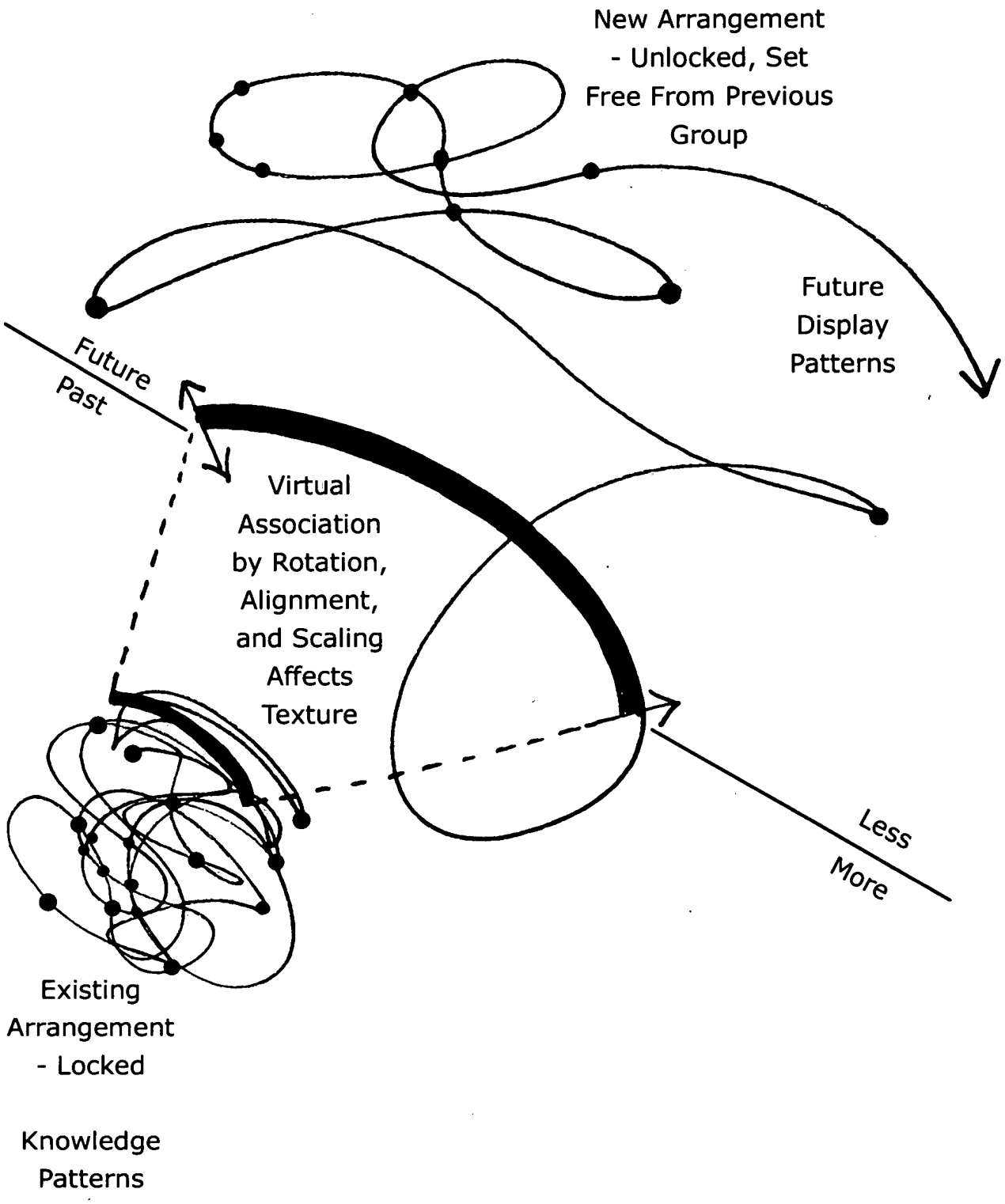
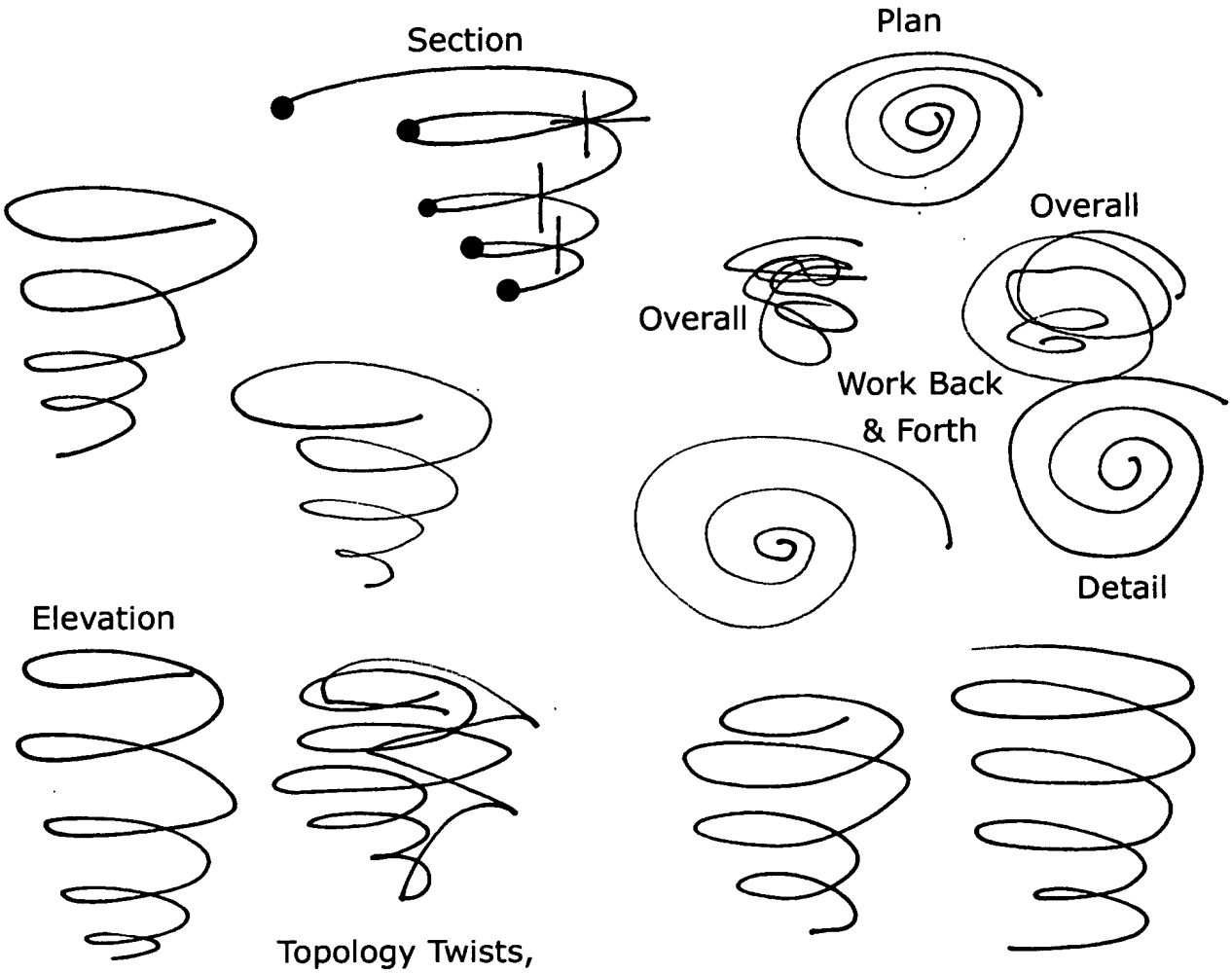
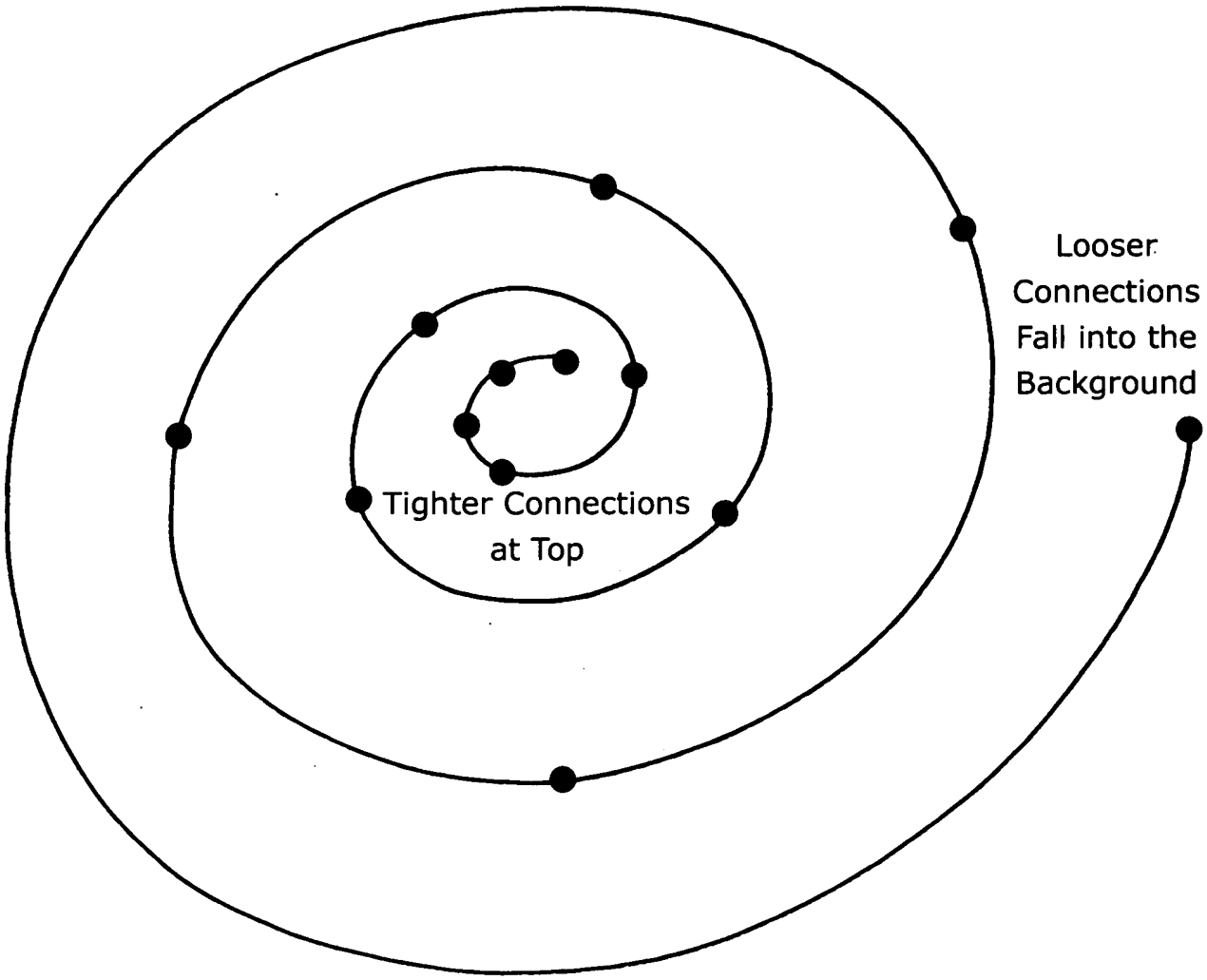

New Arrangement
- Unlocked, Set
Free From Previous
Group
Future
Display
Patterns
Future
Past
Virtual
Association
by Rotation,
Alignment,
and Scaling
Affects
Texture
Less
More
Existing
Arrangement
- Locked
Knowledge
Patterns

FIGURE 7B



Topology Twists,
Transforms, Scales
and Moves as Necessary
Until Radius Are Aligned,
Compressed, and Virtually
Organized in High
Dimensions

FIGURE 8A



Default Seashell Pattern

Vector Arcs Without
Straight Lines, Corners
or Pixels at any Time

FIGURE 8B

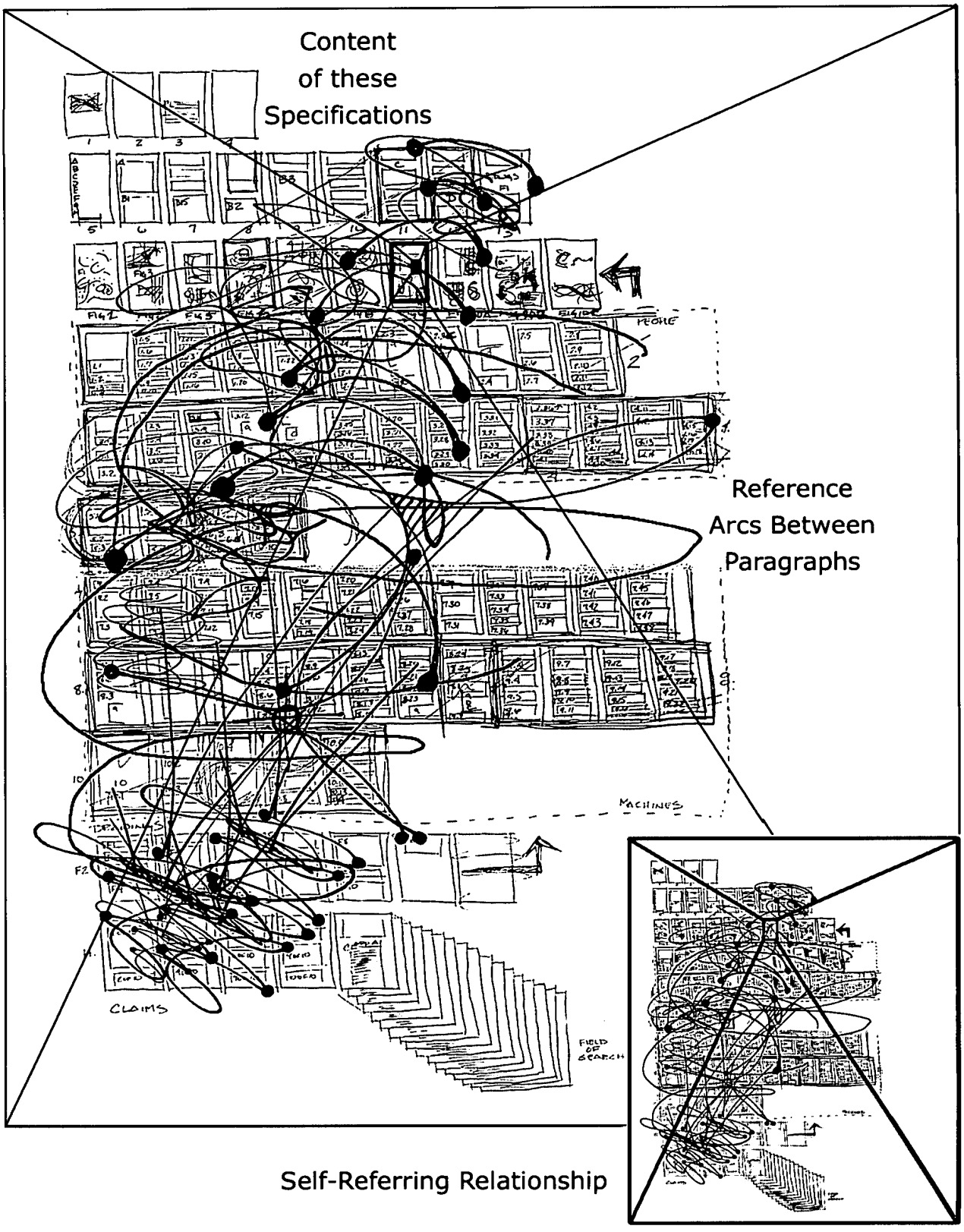
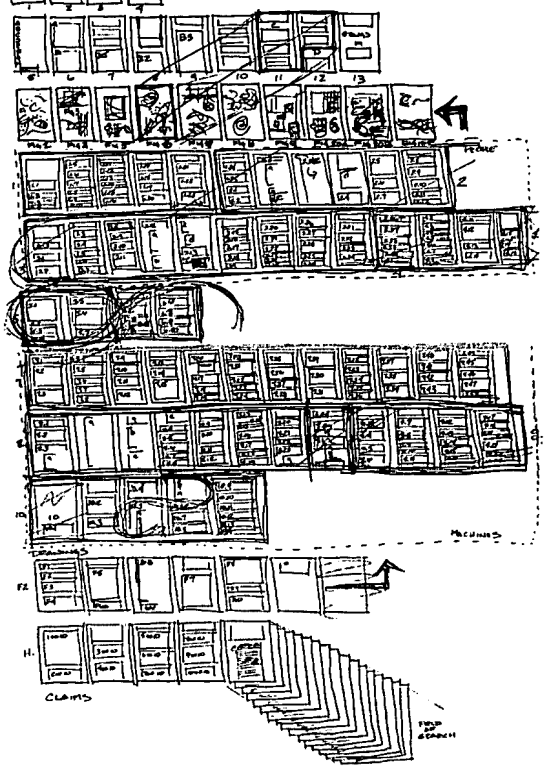

Content
of these
Specifications
Reference
Arcs Between
Paragraphs
Self-Referring Relationship

FIGURE 9

Context Driven Topologies 10/803,040 Deborah MacPherson 2004 - Annotated Sheet

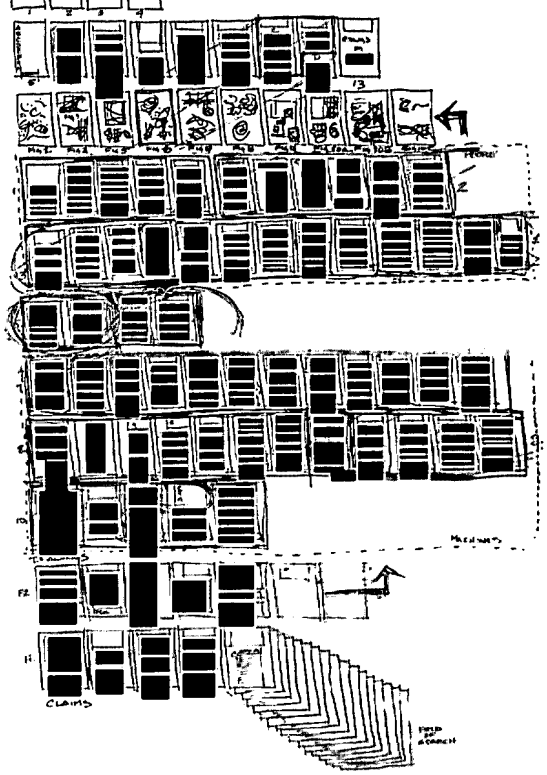
STEP 1

Pages, Paragraphs, Sections

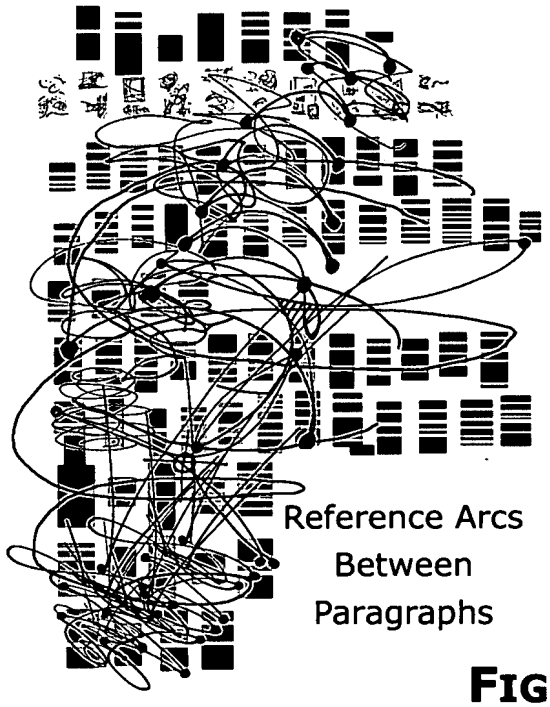


STEP 2

Page Breaks Removed

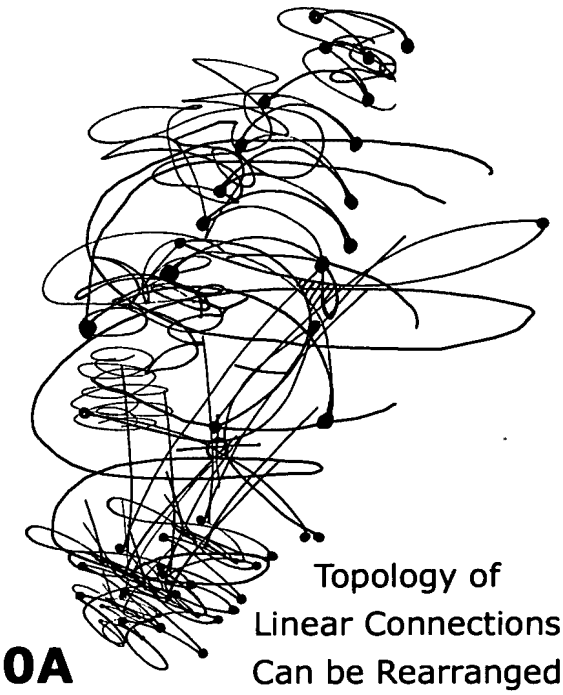


STEP 3



Reference Arcs Between Paragraphs

STEP 4



Topology of Linear Connections Can be Rearranged

FIGURE 10A

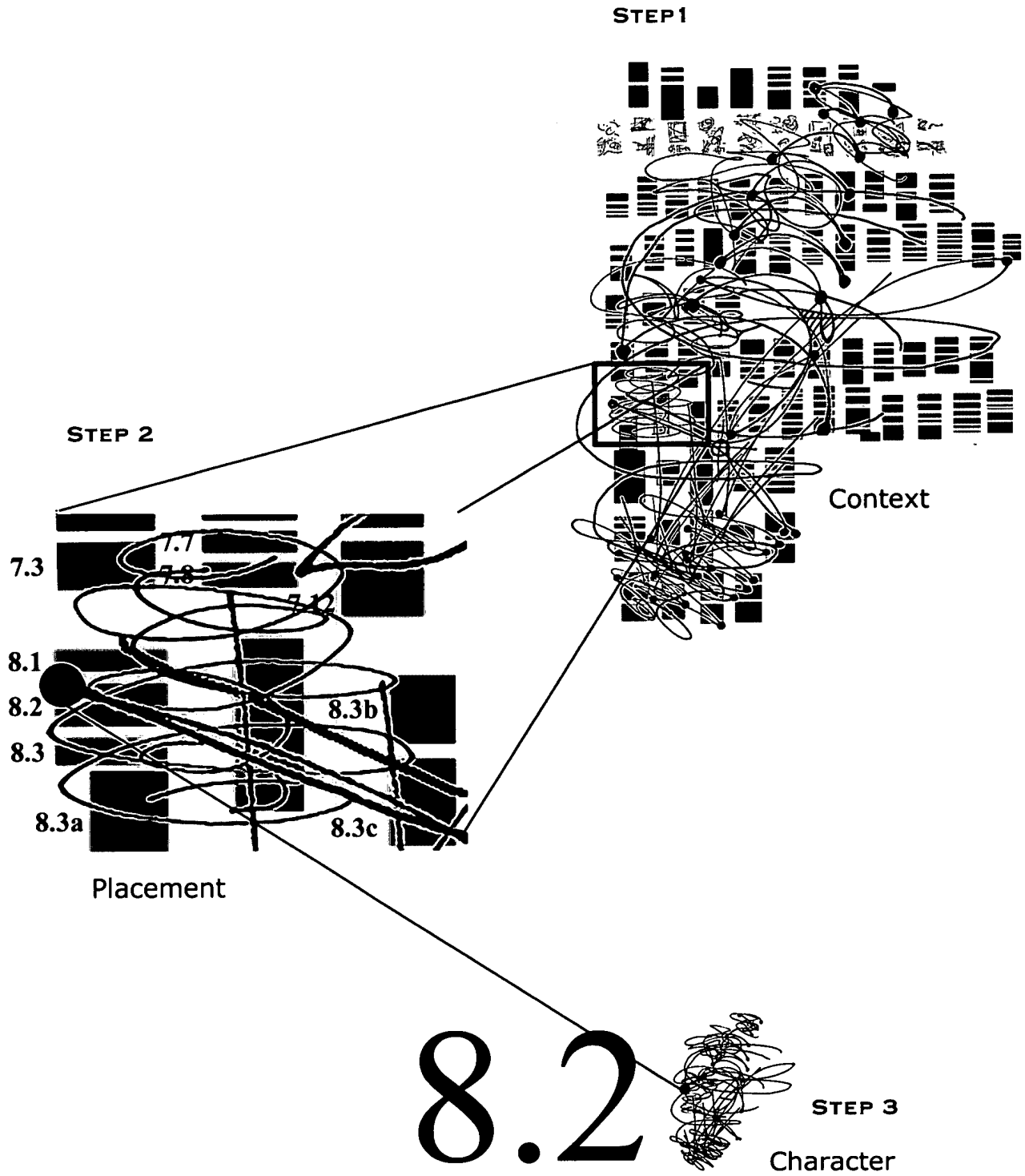
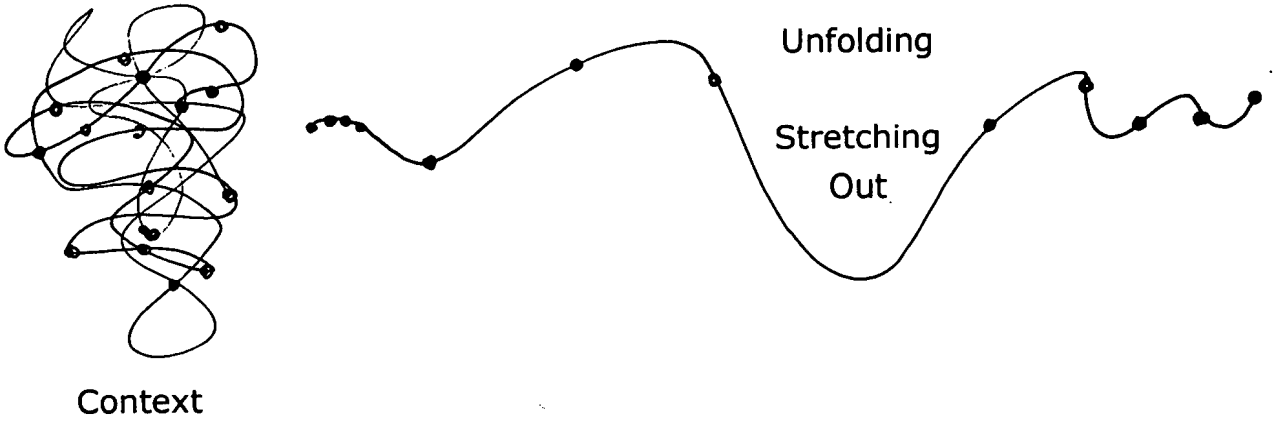

STEP 1
STEP 2
7.3
8.1
8.2
8.3
8.3a
8.3b
8.3c
Placement
Context
8.2
STEP 3
Character

FIGURE 10B


Unfolding
Stretching
Out
Context

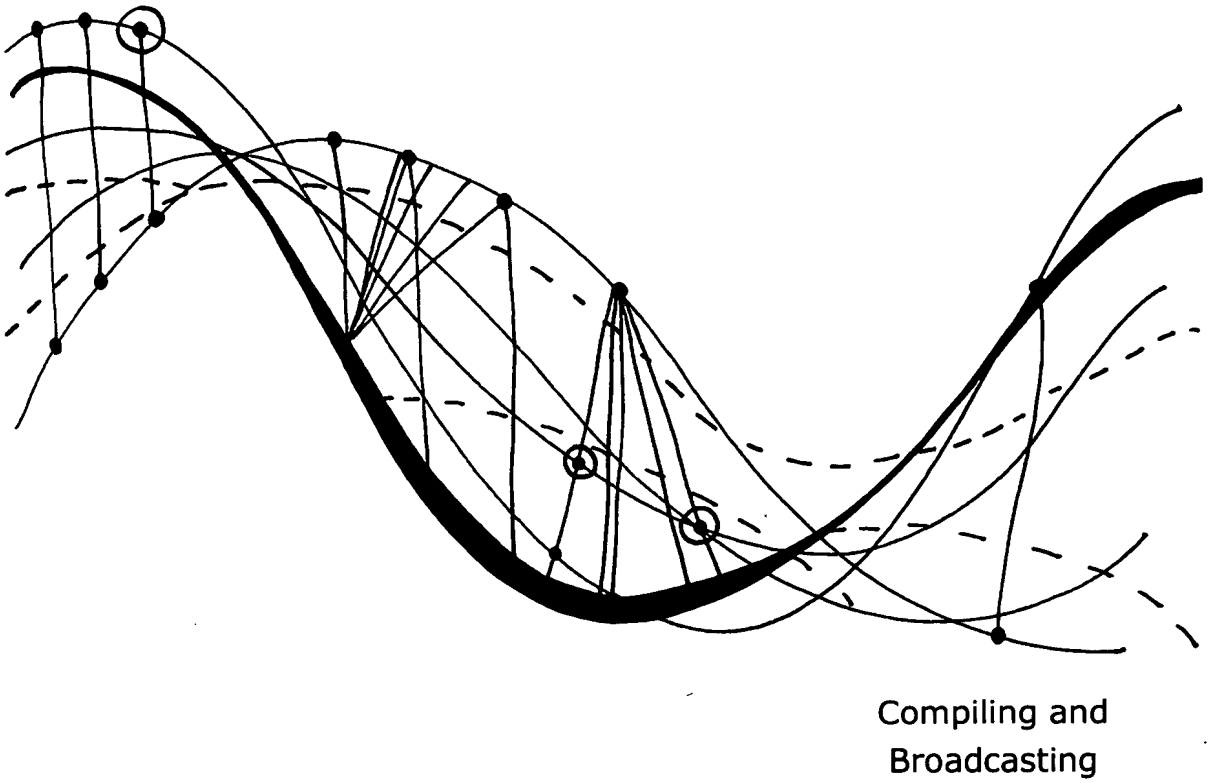

Compiling and
Broadcasting

FIGURE 10C